

**AUTHORIZATION TO DISCHARGE UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM**

In compliance with the provisions of the Clean Water Act, as amended,
(33 U.S.C. § 1251 et seq.; the "Act") and Chapter 342D, Hawaii Revised Statutes, and
Chapters 11-54 and 11-55, Administrative Rules, Department of Health (DOH), State of Hawaii,

AES HAWAII, INC.

(hereinafter "PERMITTEE"),

is authorized to discharge storm water runoff, and RO and R1 water resulting from distribution
line failures, from its AES Hawaii, Inc.'s Coal-Fired Cogeneration Facility,

located at 91-086 Kaomi Loop, Kapolei, Oahu, Hawaii 96707,

to the Pacific Ocean, from Outfalls located at the following coordinates:

Outfall Serial No.	Latitude	Longitude
001	21°18'16"N	158°06'38"W
002	21°17'56"N	158°06'22"W
003	21°17'24"N	158°06'40"W

in accordance with the effluent limitations, monitoring requirements and other conditions set
forth herein, and in the attached DOH "Standard NPDES Permit Conditions," dated
December 30, 2005.

All references to Title 40 of the Code of Federal Regulations (CFR), are to regulations
that are in effect on July 1, 2004, except as otherwise specified. Unless otherwise specified
herein, all terms are defined as provided in the applicable regulations in Title 40 of the CFR.

This permit shall become effective 30 days after the date of issuance

This permit and the authorization to discharge will expire at midnight,
November 30, 2010.

Signed this _____ day of _____.

(For) Director of Health

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A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. Storm Water Runoff Associated With Bulk Materials Storage Area

During the period beginning with the effective date of this permit and lasting through November 30, 2010, the Permittee is authorized to discharge storm water runoff from the bulk materials storage area to Outfall Serial No. 002 in accordance with the conditions below.

a. Authorized Discharges

The Permittee is authorized to discharge storm water runoff associated with bulk materials storage only in the event that rainfall in excess of a 10-year, 24-hour rainfall event (8 inches of rainfall within 24 hours) causes an overflow from "containment facilities."

"Containment facilities" shall mean facilities designed and constructed to contain the storm water runoff from a 10-year, 24-hour rainfall event; and operated in a manner to maintain a state of availability to contain storm water runoff from recurring or from subsequent precipitation.

b. Effluent Limitations and Monitoring Requirements

PARAMETER	DISCHARGE LIMITATION	UNITS	MONITORING FREQUENCY	SAMPLE TYPE
Flow	N/L	MGD	Once/Discharge	Estimate
Total Suspended Solids	N/L	MG/L	Once/Discharge	Grab
Turbidity	N/L	NTU	Once/Discharge	Grab
Dissolved Oxygen	N/L	% Saturation	Once/Discharge	Grab
pH	7.6 - 8.6	Standard Units	Once/Discharge	Grab ¹
Temperature	N/L	°C	Once/Discharge	Grab

N/L No limitation. The Permittee shall monitor and report results only.

MGD Million gallons per day.

MG/L Milligrams per liter.

NTU Nephelometric turbidity units.

¹ The Permittee shall analyze the effluent for pH within 15 minutes of when the sample was taken.

c. Sampling Locations

The Permittee shall sample storm water runoff associated with the bulk materials storage area where the storm water runoff exits the facility and prior to mixing with receiving waters.

d. Rainfall Information

- (1) The Permittee shall use the National Weather Service gage station at Kalaeloa Airport to monitor rainfall.
- (2) The Permittee shall also establish, operate, and maintain a gage station at the plant and record rainfall on a daily basis. The Permittee shall use a National Weather Service Standard Rain Gage.

2. Storm Water Runoff Associated with Industrial Activity

The Permittee shall monitor storm water runoff from all areas except the bulk materials storage area discharging to Outfall Serial Nos. 001 and 003 in accordance with the conditions below:

a. Effluent Limitations and Monitoring Requirements

PARAMETER	DISCHARGE LIMITATION	UNITS	MONITORING FREQUENCY	TYPE OF SAMPLE ¹
Flow	N/L	MGD	Once/Year ²	Calculated or Estimated
Biochemical Oxygen Demand (5-Day)	N/L	mg/l	Once/Year ²	Composite ³
Chemical Oxygen Demand	N/L	mg/l	Once/Year ²	Composite ³
Total Suspended Solids	N/L	mg/l	Once/Year ²	Composite ³
Total Phosphorus	N/L	mg/l	Once/Year ²	Composite ³
Total Nitrogen	N/L	mg/l	Once/Year ²	Composite ³
Nitrate + Nitrite Nitrogen	N/L	mg/l	Once/Year ²	Composite ³
Oil and Grease	15	mg/l	Once/Year ²	Grab

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PARAMETER	DISCHARGE LIMITATION	UNITS	MONITORING FREQUENCY	TYPE OF SAMPLE ¹
pH Range	7.6 - 8.6	Standard Units	Once/Year ²	Grab ⁴
Aluminum (total recoverable)	N/L	µg/l	Once/Year ²	Composite ³
Arsenic (total recoverable)	69 ⁵	µg/l	Once/Year ²	Composite ³
Copper (total recoverable)	2.9 ⁵	µg/l	Once/Year ²	Composite ³
Iron (total recoverable)	N/L	µg/l	Once/Year ²	Composite ³
Lead (total recoverable)	140 ⁵	µg/l	Once/Year ²	Composite ³
Manganese (total recoverable)	N/L	µg/l	Once/Year ²	Composite ³

N/L No Limitation at this time. Only monitoring and reporting required.

N/A Not Applicable.

MGD Million gallons per day

mg/l Milligrams per liter

µg/l Micrograms per liter

¹ The Permittee shall collect samples for analysis from a discharge resulting from a representative storm. A representative storm means a rainfall that accumulates more than 0.1 inch of rain and occurs at least 72 hours after the previous measurable (greater than 0.1 inch) rainfall event.

“Grab sample” means a sample collected during the first 15 minutes of the discharge.

“Composite sample” means a combination of at least two (2) sample aliquots, collected at periodic intervals. The composite shall be flow proportional; either the time interval between each aliquot or the volume of each aliquot must be proportional to the total flow of storm water discharge flow since the collection of the previous aliquot. The Permittee may collect aliquots manually or automatically.

Samples for analysis shall be collected during the first 15 minutes of the discharge and at 15-minute intervals thereafter for the duration of the discharge, as applicable. If the discharge lasts for over an hour, sample collection may cease.

² "Once/Year" shall mean once per calendar year beginning in the year 2006 if not already conducted in 2006 under the previously issued NPDES permit. Otherwise, monitoring shall begin in 2007. If the Permittee was unable to

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sample during a calendar year, then the annual Discharge Monitoring Report shall so state with an explanation as to why sampling was not conducted.

- ³ If the duration of the discharge event is less than 30 minutes, the sample collected during the first 15 minutes of the discharge shall be analyzed as a grab sample and reported toward the fulfillment of this composite sample specification. If the duration of the discharge event is greater than 30 minutes, the Permittee shall analyze two (2) or more sample aliquots as a composite sample.
- ⁴ The Permittee shall measure pH within 15 minutes of obtaining the grab sample.
- ⁵ The Department may modify the numerical effluent limitation when a site-specific translator between the dissolved fraction and total recoverable forms has been developed by the Permittee and approved by the Director of Health (Director).

b. Sampling Locations

The Permittee shall sample storm water runoff associated with industrial activity where the storm water runoff exits the facility and prior to mixing with receiving waters.

c. Storm Water Pollution Control Plan (SWPCP)

- (1) The Permittee shall continue to implement its most current SWPCP.
- (2) The Permittee shall revise the SWPCP should any discharge limitation be exceeded. The revisions shall include measures to reduce the amount of pollutants found to be in exceedance from entering storm water runoff.
- (3) The Permittee shall review and update the SWPCP as often as needed or required by the Director. The Permittee shall report any major changes to the SWPCP to the Director within 30 days from the date the changes were made. The Permittee shall maintain documentation of all changes made to the SWPCP.
- (4) The Permittee shall maintain a copy of the SWPCP at the facility.

3. RO and R1 Water

- a. The Permittee shall visually monitor RO and R1 water discharges through Outfall Serial Nos. 001, 002, and 003 by taking photographs of the discharge entering the receiving water, and of any plume resulting from

the discharge. The Permittee shall submit the photographs to the DOH within 10 calendar days from when they were taken.

- b. The Permittee shall implement a RO/R1 water spill response plan.
- c. The Permittee shall review and update the RO/R1 water spill response plan as necessary or required by the Director. The Permittee shall report any major changes to the RO/R1 water spill response plan to the Director within 30 days from the date the changes were made. The Permittee shall maintain documentation of all changes made to the RO/R1 water spill response plan.
- d. The Permittee shall maintain a copy of the RO/R1 water spill response plan at the facility.

B. REPORTING REQUIREMENTS

1. Discharge Information

a. Storm Water Runoff from the Bulk Materials Storage Area

The Permittee shall submit the following information no later than 10 days after any discharge of storm water runoff from the bulk materials storage area:

- (1) Description and cause of the discharge;
- (2) Date, time, and duration of the discharge;
- (3) Action taken to reduce, eliminate, or prevent recurrence of the discharge; and
- (4) Rainfall in inches per day for each day which contributed to, or caused the discharge.

b. RO and/or R1 Spills and Discharges

- (1) The Permittee shall orally notify the Clean Water Branch (CWB) at 586-4309 within 24 hours when pipeline failure results in a spill and/or discharge of RO and/or R1 water.
- (2) The Permittee shall also submit the following information no later than 10 days after the spill and/or discharge of RO and/or R1 water:
 - (a) Description and cause of the spill and/or discharge;
 - (b) Date, time, and duration of the spill and/or discharge; and
 - (c) Action taken to reduce, eliminate, or prevent recurrence of the spill and/or discharge.
 - (d) Photographs of discharges as required by Part A.3.a.

2. Monitoring Results

- a. The Permittee shall summarize and report monitoring results on a Discharge Monitoring Report (DMR) Form (EPA No. 3320-1) in a format that allows direct comparison with the limitations and requirements of this permit.
- b. The Permittee shall submit DMRs for discharges of storm water runoff from the bulk materials storage area on an annual basis. The Permittee shall submit DMR on an annual basis with maximum values for each required monitoring parameter for discharges occurring during that year. As an attachment to the DMR, the Permittee shall submit all monitoring results for each discharge event.
- c. The Permittee shall submit DMRs for discharges of storm water runoff from all areas except the bulk materials storage area on an annual basis.
- d. The DMRs shall be postmarked no later than the 28th day of the month following the completed monitoring period. If there was no discharge during the monitoring period, then the DMR shall so state.

3. Noncompliance

a. Oral Reports

The Permittee shall orally notify the CWB at 586-4309 within 24 hours when the following occurs:

- (1) Any exceedance of a pollutant limitation;
- (2) Any noncompliance which may endanger human health or the environment;
- (3) Any bypass or upset resulting in or contributing to a discharge to State waters; and
- (4) Any discharge not authorized by this permit.

b. Written Reports

- (1) For those noncompliances requiring immediate oral reporting, the Permittee shall submit a written noncompliance report within five (5) days of the time the Permittee becomes aware of the noncompliance. The report shall be submitted to the CWB address listed in Part B.4.
- (2) The report shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the amount of time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.
- (3) The Director may waive the written report or the 5-day deadline on a case-by-case basis if the oral report has been received within 24 hours of the noncompliance.

4. Points of Contact

The Permittee shall submit DMR and other written reports required by Part B of this permit to the Regional Administrator and the Director at the following addresses:

- (a) Regional Administrator
U.S. Environmental Protection Agency
Region 9, Water Division
CWA Compliance Office (WTR-7)
75 Hawthorne Street
San Francisco, CA 94105
- (b) Director of Health
State Department of Health
Environmental Management Division
Clean Water Branch
919 Ala Moana Boulevard, Room 301
Honolulu, HI 96814-4920

C. OTHER REQUIREMENTS

1. Schedule of Submission

- a. Within 60 days after the effective date of this permit, the Permittee shall submit an effluent monitoring program detailing the sampling requirements as specified in Part A of this permit to the Director for approval. The effluent monitoring program shall include the following:
 - (1) Sampling locations;
 - (2) Sampling procedures;
 - (3) Test method to be used for each parameter; and
 - (4) Quality Assurance/Quality Control methods.
- b. Within 60 days after the effective date of this permit, the Permittee shall submit an RO/R1 water spill response plan that includes specific measures to be taken by the Permittee should a RO or R1 water spill occur and identifies the Permittee's and the distribution line owner's specific areas of responsibilities.

2. Schedule of Maintenance

The Permittee shall submit a schedule for approval by the Director at least 14 days prior to any maintenance of facilities which might result in exceedance of effluent limitations. The schedule shall contain a description of the maintenance and its purpose; the period of maintenance, including exact dates and times; and steps taken or planned to reduce, eliminate, and prevent occurrence of noncompliance.

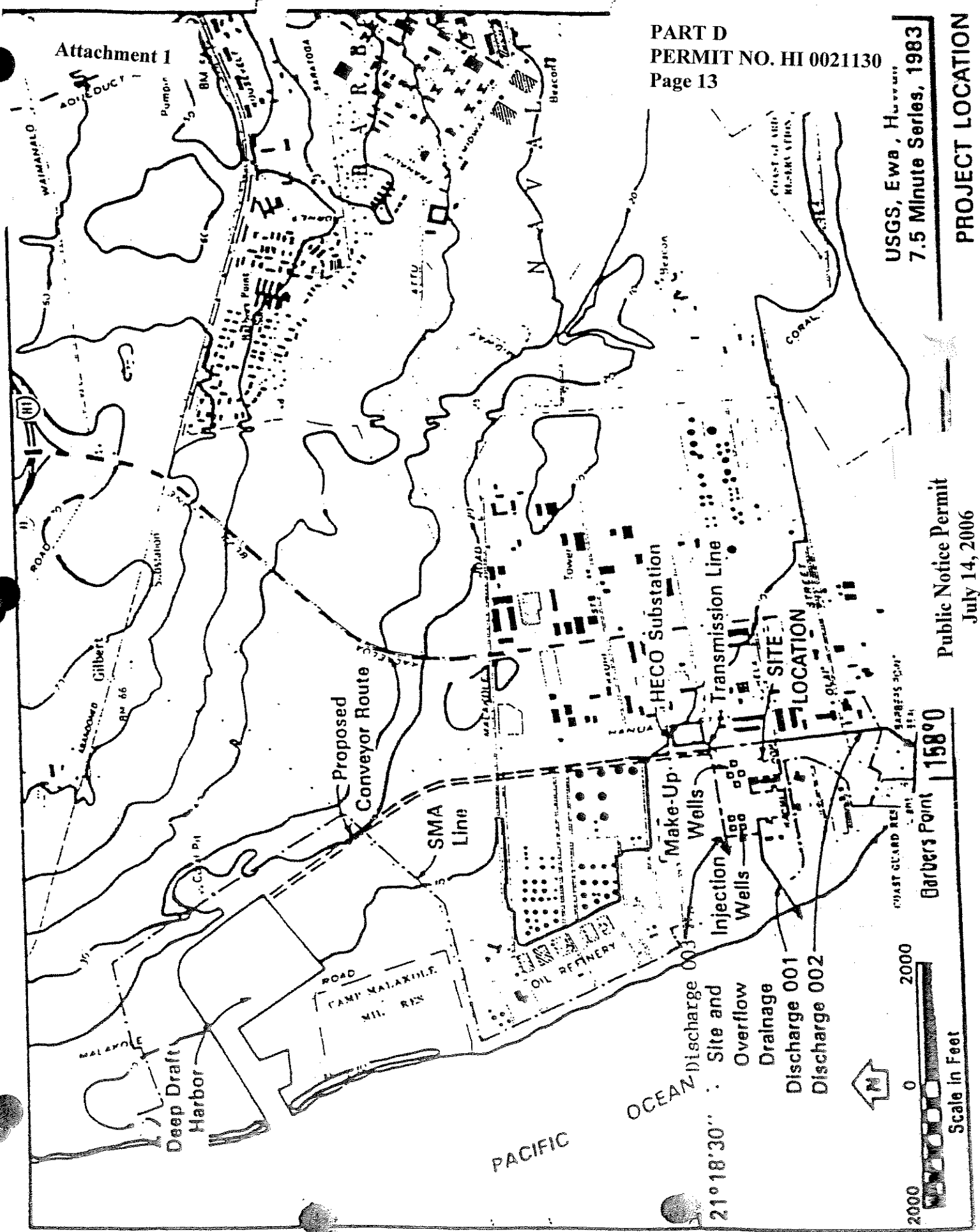
D. LOCATION MAP

Attachment 1

Attachment 1

USGS, Ewa, Hawaii
 7.5 Minute Series, 1983

PROJECT LOCATION



Public Notice Permit
 July 14, 2006